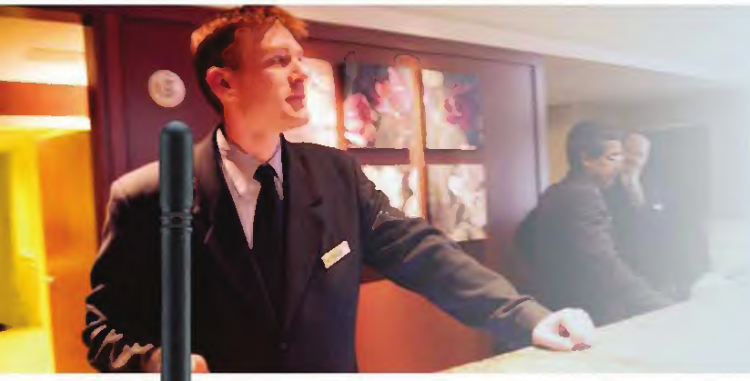
KENWOOD

Listen to the Future

ADVANCED WIRELESS COMMUNICATIONS



TK-2160/3160

Compact VHF/UHF FM Portable Radios

FleetSync® by KENWOOD

GENERAL FEATURES

- 5 W (136-174 MHz)
- 4 W (450-490, 470-512, 400-430 MHz)
- 16 Conventional Channels
- Single Priority / Normal Scan
- Transmit / Busy / Call Alert / Scan / Warn LED
- 3 PF keys
- Orange Emergency / AUX Key
- 500 mW Audio Power
- Enhanced Kenwood Audio
- Companded Audio
- VOX Ready
- Voice Inversion Scrambler Built-in
- Emergency Call Features
- QT / DQT
- Two-Tone Decode[1]
- Single / Two-Tone Encode[1]
- DTMF Encode / Decode[2]
- Special Alert Tone Pattern[3]
- Time Out Timer
- Busy Channel Lockout
- Low Battery Warning
- Battery Saver
- Windows® Programming & Tuning[4]
- Windows® Firmware Uploading[4]
- MIL-STD-810 C/D/E/F
- IP-54/55 Water & Dust Intrusion
- Intrinsically Safe Option

FleetSync®

- PTT ID Digital ANI
- Emergency Status
- Selective Call (single ID)

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Options

- **KNB-25A** Ni-Cd Battery Pack (1,200mAh)
- **KNB-26N** Ni-MH Battery Pack (2,000mAh)
- **KNB-35L** Li-ion Battery Pack (7.4V/1950mAh)

- **KNB-40LC** Li-ion Battery Pack (7.4V/1950mAh) I.S.
- **KBP-S** Battery Case
- **KSC-25** Rapid Charger
- **K5C-30** Charger for KNB-25A and KNB-26N

- **KRA-22** VHF Low Profile Helical Antenna

- **KRA-23** UHF Low Profile Helical Antenna

- **KRA-26** VHF Helical Antenna

- **KRA-27** UHF Whip Antenna

- **KMC-17** Speaker Microphone

- **KMC-21** Speaker Microphone

- **KEP-2** Earphone Cord Kit for KMC-17

- **KHS-1** Head Set with VOX/PTT

- **KH5-22** Head Set

- **KVC-3** Regular Rate Vehicular Charger Adapter (for KSC-30)
- **KVC-4** Rapid Rate Vehicular Charger Adapter (for KSC-25)

- **KHS-7A** Lightweight Single Muff Headset

- **KHS-8BL** 2-wire Palm Mic with Earphone (Black)

- **KHS-9BL** 3-wire Lapel Mic with Earphone (Black)

- **KLH-13B** Leather Case

- **KBH-12** Belt Clip

Specifications

All accessories and options may not be available in all markets.
Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

Model	TK-2160	TK-3160
GENERAL		
Frequency Range		
Type 1	136-174 MHz	450-490 MHz
Type 2	–	470-512 MHz
Type 3	–	400-430 MHz
Number of Channels	Max. 16	
Channel Spacing		
Wide/Narrow	25, 30kHz/12.5,15kHz	25kHz/12.5kHz
Channel Step	2.5, 5, 6.25, 7.5kHz	5, 6.25kHz
Operating Voltage	7.5V DC±20%	
Battery Life (5-5-90 duty cycle)		
with KNB-25A (1200mAh)	Approx. 8 hours	
with KNB-26N (2000mAh)	Approx. 12 hours	
with KNB-35L (1950mAh)	Approx. 11 hours	
Operating Temperature Range	-22°F ~ +140°F (-30°C ~ +60°C) [-14°F ~ +140°F (-10°C ~ +60°C) when KNB-24L/26N in use]	
Frequency Stability	±2.5ppm (-22°F ~ +140°F)	
Antenna Impedance	50 Ω	
Channel Frequency Spread		
Type 1	38MHz	40MHz
Type 2	–	42MHz
Type 3	–	30MHz
Dimensions (W x H x D), Projections not included		
Radio Only	2.2" x 4.3" x 0.72" (56 x 109.3 x 18.4mm)	
with KNB-35L	2.2" x 4.3" x 1.35" (56 x 109.3 x 34.5mm)	
with KNB-25A	2.2" x 4.3" x 1.6" (56 x 109.3 x 40.7mm)	
with KNB-26N	2.2" x 4.3" x 1.6" (56 x 109.3 x 40.7mm)	
Weight		
Radio Only	5.8oz (165g)	
with KNB-35L	10.2oz (290g) without antenna	
with KNB-25A	12.5oz (355g) without antenna	
with KNB-26N	14.1oz (400g) without antenna	

Model	TK-2160	TK-3160
GENERAL		
FCC ID		
Type 1	ALH36413110	ALH36423110
Type 2	–	ALH36423120
Type 3	–	ALH36423130
IC Certification		
Type 1	282D-36413110	282D-36423110
Type 3	–	282D-36423130
RECEIVER (Measurements made per TIA/EIA-603)		
Sensitivity (12dB SINAD)		
Wide/Narrow	0.25µV/0.28µV	
Selectivity		
Wide/Narrow	70dB/62dB	
Intermodulation Distortion		
Wide/Narrow	65dB/60dB	
Spurious Response	65dB	
Audio Output	500 mW with less than 10% distortion	
TRANSMITTER (Measurements made per TIA/EIA-603)		
RF Power Output		
High/Low	5W/1W	4W/1W
Spurious Response	70dB	
Modulation		
Wide/Narrow	16KØF3E/11KØF3E	
FM Noise		
Wide/Narrow	45/43dB	45/40dB
Audio Distortion	Less than 5%	

Kenwood follows a policy of continuous advancement in development.
For this reason specifications may be changed without notice.
FleetSync® is a registered trademark of KENWOOD Corporation in the United States and/or other countries.

Applicable MIL-STD & IP

Standards	Methods/Procedures MIL-STD 810C	Methods/Procedures MIL-STD 810D	Methods/Procedures MIL-STD 810E	Methods/Procedures MIL-STD 810F
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV
International Protection Standard				
Dust & Water Protection	IP54/55			

footnotes from Front:
[1] *Two-Tone Decode (3 sets x 2 pairs each); Single / Two-Tone Encode (1 tone).*
[2] *DTMF includes PTT ID, Emergency ANI & Stun.*
[3] *Special Alert Tone Pattern operates for 2-Tone & DTMF selective call decode only (1 pattern of 16 tones).*
[4] *KPG-82D required; Windows®98/ 2000/ Me/XP compatible; English/Spanish screen languages.*

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KENWOOD

ADVANCED WIRELESS COMMUNICATIONS

ISO 9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification

20809 Kensington Blvd Lakeville, MN 55044 877-202-5060 www.advancedwireless.com

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